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DERWENT-ACC-NO: 2002-665476

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GB 00 2371295 A
2371295 B

TITLE: Superconducting material comprises structure in which fullerene molecules are polymerized into one-dimensional chain

INVENTOR: MIYAMOTO, Y

PRIORITY-DATA: 2000JP-0390715 (December 22, 2000)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>TW 518613 A</u>	January 21, 2003		000	H01B012/00
<input type="checkbox"/> <u>US 20020086800 A1</u>	July 4, 2002		008	H01B001/00
<input checked="" type="checkbox"/> <u>GB 2371295 A</u>	July 24, 2002		000	C01B031/02
<input type="checkbox"/> <u>JP 2002193606 A</u>	July 10, 2002		004	C01B031/02
<input type="checkbox"/> <u>KR 2002051865 A</u>	June 29, 2002		000	C01B031/02
<input checked="" type="checkbox"/> <u>GB 2371295 B</u>	February 26, 2003		000	C01B031/02

INT-CL (IPC): B82 B 1/00; B82 B 3/00; C01 B 31/02; H01 B 1/00; H01 B 1/04; H01 B 12/00; H01 B 13/00

ABSTRACTED-PUB-NO: US20020086800A

BASIC-ABSTRACT:

NOVELTY - The superconducting material comprises a structure in which 20C fullerene molecules are polymerized into a one-dimensional chain.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for production of superconducting material.

USE - For use as high temperature superconductor.

ADVANTAGE - The superconducting material has higher superconducting transition temperature, and contains 20C fullerene having stronger electron-lattice interaction than conventional 60C fullerene. By polymerizing 20C fullerene molecules into one-dimensional chain in a porous material, and injecting electrons or positive holes into the obtained material, a superconductor with a transition temperature of the level of 100 K can be realized. The chemical stability of superconducting material containing polymerized 20C fullerene is superior over that of oxide superconductor.

DESCRIPTION OF DRAWING(S) - The figure shows schematic view of chains of 20C